PATENT COOPERATION TREATY

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From the INTERNATIONAL SEARCHING AUTHORITY					
To: HADASSA WATERMAN	PCT				
G.E. EHRLICH (1995) LTD. 11 MENACHEM BEGIN STREET RAMAT GAN, ISRAEL 52521 14 JUN 2009 FILE No. 391833	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION (PCT Rule 44.1)				
	Date of mailing (day/month/year) 01 JUN 2009 (d)				
Applicant's or agent's file reference 39833	FOR FURTHER ACTION See paragraphs 1 and 4 below				
International application No. PCT/IL07/00918	International filing date (day/month/year) 19 July 2007 (19.07.2007)				
Applicant SPECTRUM DYNAMICS					
1. The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.					
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the clai	ms of the international application (see Rule 46):				
When? The time limit for filing such amendments is search report.	normally two months from the date of transmittal of the international				
Where? Directly to the International Bureau of WIPO 1211 Geneva 20, Switzerland, Facsimile No.:	, 34 chemin des Colombettes ; (41-22) 338.82.70.				
For more detailed instructions, see the notes on the ac-					
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.					
3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:					
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.					
no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.					
4. Reminders Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis. I and 90bis. 3, respectively, before the completion of the technical preparations for international publication.					
The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.					
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for the priority that the priority labase before those designated Offices.					
I was a father designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.					
See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide,					
Name and mailing address of the ISA/ US	MARIA B. MARVICH MARIA B. MARVICH				
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	MARIA B. MARVICH				
P.O. Box 1450 Alexandria, Virginia 22313-1450	Telephone No. (703) 308-0196				

Facsimile No. (571) 273-3201
Form PCT/ISA/220 (January 2004)

(See notes on accompanying sheet)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 39833	FOR FURTHER ACTION	as well as, whe	Form PCT/ISA/220 for applicable, item 5 below.
International application No. PCT/IL07/00918	International filing date (day 19 July 2007 (19.07.2007)	/month/year)	(Earliest) Priority Date (day/month/year)
Applicant SPECTRUM DYNAMICS			
This international search report consists of the Report a. With regard to the language, the the international a translation of the farms at the international of a translation of the farms authorized by or notified to the language to the international search report authorized by or notified to the language to the international search report authorized by or notified to the language. 2. Certain claims were found the language to the language to the language the language to the international search report authorized by or notified to the language the l	of a total of sheets. If by a copy of each prior art of the international search was carried application in the language in the international application into furnished for the purposes of ir port has been established taking this Authority under Rule 91 this Authority	document cited ed out on the bas which it was file to	sis of: ed, which is the language ch (Rules 12.3(a) and 23.1(b)) he rectification of an obvious mistake
5. With regard to the abstract, the text is approved as sub- the text has been established	. v . n1- 29 2(b)	by this Authorit	y as it appears in Box No. IV. The applicant och report, submit comments to this Authority.
6. With regard to the drawings, a. the figure of the drawings to b as suggested by the as selected by this	e published with the abstract i	s Figure No	ggest a figure.

Form PCT/ISA/210 (first sheet) (April 2007)

International application No.

PCT/IL07/00918

Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)			
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
1.	Claims Nos.: 428-448,453-540 and 578-582 because they relate to subject matter not required to be searched by this Authority, namely: Please See Continuation Sheet			
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:			
3.	Claims Nos.: 290-295, 359, 362, 363, 367, 371, 372, 380-382, 384, 449-540, 578-582 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).			
Box No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)			
This Internat Please See C	ional Searching Authority found multiple inventions in this international application, as follows: ontinuation Sheet			
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of any additional fees. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:			
4. Remark on	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: Protest The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee. The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation. No protest accompanied the payment of additional search fees.			

International application No.

PCT/IL07/00918

A. CLAS: IPC:	SIFICATION OF SUBJECT MATTER A61K 51/00(2006.01);A61N 5/00(2006.01)				
ii C.					
USPC: According to	424/1.11;604/403 International Patent Classification (IPC) or to both natio	onal classification and IPC	·		
	OS SEARCHED				
Minimum doc	sumentation searched (classification system followed by	classification symbols)			
U.S. : 42	4/1.11; 604/403				
Documentation	on searched other than minimum documentation to the ex	xtent that such documents are included in	the fields searched		
Electronic dat East dbases- l	ta base consulted during the international search (name of USPAT, PGPUB, EPO, JPO, Derwent	of data base and, where practicable, searc	h terms used)		
G 500	JMENTS CONSIDERED TO BE RELEVANT				
	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.		
Category *	US 20060160157 (ZUCKERMAN, M.M.) 20 July 200	06 (20.07.2006), para 144	273, 274, 276		
X	US 20050205792 (RUOSSO et al) 22 September 2005		283-286, 289		
У	0086	254-261, 267, 385-388,			
X	US 20070166227 (LIU et al) 19 July 2007 (19.07.2007),para 139, 233				
Y	283-286, 2				
X	US 20050020915 (BELARDINELLI et al) 27 January	541, 552, 583, 584, 586, 587			
X	US 20040086437 (JACKSON et al) 6 May 2004 (06.0	252, 253			
Furthe	r documents are listed in the continuation of Box C.	See patent family annex.			
	Special categories of cited documents:	"T" later document published after the inte date and not in conflict with the appli	ernational filing date or priority		
	at defining the general state of the art which is not considered to be of	principle or theory underlying the inve	ention		
particula	r relevance pplication or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be consid when the document is taken alone	claimed invention cannot be ered to involve an inventive step		
	nt which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	'document of particular relevance; the considered to involve an inventive ste with one or more other such documen	en when the document is committee		
"O" docume	nt referring to an oral disclosure, use, exhibition or other means	obvious to a person skilled in the art			
"P" docume	nt published prior to the international filing date but later than the date claimed	"&" document member of the same paten			
Date of the	actual completion of the international search	Date of mailing of the international search report			
01 Septemb	er 2008 (01.09.2008)	Authorized officer	1		
M	nailing address of the ISA/US ail Stop PCT, Attn: ISA/US ommissioner for Patents	MARIA B. MARVICH J. Hurley for			
P. Al	O. Box 1450 lexandria, Virginia 22313-1450	Telephone No. (703) 308-0196			
Facsimile N	lo. (571) 273-3201				

Form PCT/ISA/210 (second sheet) (April 2007)

International application No. PCT/IL07/00918

Box II Observations where certain claims were found unsearchable 1, because they relate to subject matter not required to be searched by this Authority, namely:

because the claimed recitation of a use, without setting forth any steps involved in the process, results in an improper definition of a process, i.e., results in a claim which is not a proper process claim under 35 U.S.C. 101. See for example Ex parte Dunki, 153 USPQ 678 (Bd.App. 1967) and Clinical Products, Ltd. v. Brenner, 255 F. Supp. 131, 149 USPQ 475 (D.D.C. 1966).

BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I-LXXXIII, claims 1-251 and 566-577, drawn to methods of 83 distinct methods of radioimaging as set forth in tables 1-83 wherein the methods require administration of radiopharmaceuticals followed by radioimaging the target organ.

Groups LXXXIV-CXLIV, claim 252, drawn to 60 distinct methods of packaging a pharmaceutical comprising packaging any one of 60 distinct radiopharmaceuticals.

Group CXLV-CCV, claim 253, drawn to any one of 60 distinct packaged radiopharmaceuticals.

Group CCVI, claims 254-272, drawn to a radiopharmaceutical have a dose equivalent of 2.5 mrem or less per kg body weight or 150 mrem or less.

Group CCVII-CCLXVIII, Claims 273-276, drawn to one of approximately 162 radiopharmaceuticals that are in low dose

Group CCCLXIX, Claims 283-289, 296-331, 339-358, 360, 361, 364-366, 368-370, 373-379, 383, drawn to methods of radioimaging the heart comprising administering a low dose of a first and/or a second pharmaceutical followed by acquiring date representing a distribution of the first pharmaceutical

Group CCCLXX, Claims 283-284, 332-335, 368-370, 373-379, 383 drawn to methods of radioimaging the lung comprising administering a low dose of a first pharmaceutical followed by acquiring date representing a distribution of the first pharmaceutical

Group CCCLXXI, Claims 283-284, 336-338, 368-370, 373-379, 383 drawn to methods of radioimaging the bone comprising administering a low dose of a first pharmaceutical followed by acquiring date representing a distribution of the first pharmaceutical

Groups CCCLXXII-CCCLLXLII, Claims 385-427, drawn to any of 20 distinct kits comprising a first and second radiopharmaceutical wherein the 20 kits are found in claims 388, 390, 392, 394, 396, 398, 400, 402, 404, 406, 408, 410, 412,414, 416, 418, 420, 422, 424, 426.

Group CCCXCIII, Claims 541-565 and 583-588, drawn to a diagnostic pharmaceutical kit comprising a first and/or second radiopharmaceutical with saline and/or a pharmacological stress agent and methods of using.

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The inventions of Groups I-LXXXXIII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the "special technical feature" of claims 1-251 and 566-577 is the step of administering a radiopharmacetucial followed by radioimaging, which as shown by Lui et al (see e.g. claim 44) lacks novelty of inventive step and does not make a contribution over the art.

Each of Groups LXXXIV-CXLIV is drawn to methods of packaging structurally and functionally distinct compounds that do not share a common structural feature. And as the methods are drawn to processes that require distinct products, the methods themselves are distinct in that distinct products are used in the methods and distinct products are the result of the methods. Groups I-LXXXXIII and Groups LXXXIV-CXLIV do not share any method steps and therefore comprise distinct methods and steps.

Each of Groups CCVII-CCLXVIII do not relate to a single general inventive concept because they lack the same or corresponding technical feature. The "special technical feature" of Groups CCVII-CCCLXVIII is a low dose radiopharmaceutical, which is shown by Zuckennan (20060160157, see para 144), to lack novelty of inventive step and does not make a contribution over the prior art.

Groups CCCLXIX-CCCLXXI do not relate to a single general inventive concept because they lack the same or corresponding technical feature. The "special technical feature" of Groups CCVII-CCCLXVIII is a low dose radiopharmaceutical that is administered followed by acquiring date representing distribution of the at least first radiopharmaceutical, which is shown by Liu et al (see 20070166227 for PCTUS0504872, see e.g. para 233) in view of Ruosso et al (20050205792, see figure 5 and para 0086), to lack novelty of inventive step and does not make a contribution over the prior art.

Groups CCCLXXII-CCCLLXLII do not relate to a single general inventive concept because they lack the same or corresponding technical feature. The "special technical feature" of Groups CCVII-CCCLXVIII is a kit comprising two radiopharmaceuticals, which is shown by Liu et al (see 20070166227 for PCTUS0504872, see e.g. para 139), to lack novelty of inventive step and does not make a contribution over the prior art.

Group CCCXCIII, does not relate to a single general inventive concept with any of Groups I- CCCXCII because they lack the same or corresponding technical feature. The "special technical feature" of Group CCCXCIII is a kit comprising two radiopharmaceuticals, which is shown by Belardinelli et al (US 20050020915; see para 242), to lack novelty of invention and does not make a contribution over the prior art.